



OWB-FUNDED VITICULTURE AND ENOLOGY RESEARCH

JASON TOSCH

OWB DIRECTOR & RESEARCH COMMITTEE CHAIR



OREGON WINE BOARD

OREGON WINE SYMPOSIUM
FEBRUARY 16, 2021



V&E RESEARCH STEERING COMMITTEE



Jason Tosch
Stoller Wine Group
Viticulture
Committee Chair



Dr. David Beck
Crawford-Beck Vineyard
Viticulture
Co-Vice Chair



John Pratt
Celestina Vineyard
Viticulture
Co-Vice Chair



Elizabeth Clark
Airlie Winery
Winemaking



Anthony King
King Wine Consulting
Winemaking



Ken Kupperman
Jackson Family Wines
Viticulture



Joey Myers
REX HILL / A to Z
Viticulture



Dave Paige
David Paige Wines
Winemaking



FULL RESEARCH COMMITTEE

NORTH WILLAMETTE VALLEY

Vit & Eno

David Beck, Crawford Beck Vineyards
Robert Brittan, Brittan Vineyards
Michael Fay, Domaine Serene
Erik Kramer, WillaKenzie Estate
Anneka Miller, Burton Bittman Wines

Viticulture

Leigh Bartholomew, Results Partners
Ted Casteel, Bethel Heights Vineyard
Leti Catoira, Jackson Family Wines
Geoffrey Hall, Argyle Winery
Allen Holstein, Holstein Vineyards
Ken Kupperman, Jackson Family Wines
Ryan McAdams, Erath Winery
Erica Miller, Stoller Wine Group
Kathy Koball Miller, Tukwilla Vineyard
Karl Mohr, Atlas Vineyard Management
Joey Myers, REX HILL / A to Z Wineworks
Tim Scott, Archery Summit
Bruce Sonnen, Van Duzer Vineyards
Jason Tosch, Stoller Wine Group
Chad Vargas, NewGen Vineyards Services

Enology

Johnny Brose, Chemeketa Community College
Tresider Burns, White Rose Estate
Scott Dwyer, Chemeketa / Lytle-Barnett
Gina Hennen, Adelsheim Vineyard
Anthony King, King Wine Consulting
Mel Liebeck, Carlton Winemakers Studio
Anna Matzinger, Matzinger-Davies Wine Company
Dave Paige, Dave Paige Wines
Karl Weichold, Stoller Wine Group

MID & SOUTH WILLAMETTE VALLEY

Vit & Eno

Dai Crisp, Lumos Wine / Temperance Hill Vineyard

Viticulture

Jim Bradshaw, Bradshaw Vineyards
Ray Nuclio, King Estate Winery

Enology

Elizabeth Clark, Airlie Winery
Bill Kremer, Kremer Consulting

SOUTHERN OREGON

Vit & Eno

Brian Gruber, Quady North / Barrel 42 Custom Winecraft

Viticulture

Jason Cole, Pacific Crest Vineyard Services
Michael Moore, Quail Run Vineyards
John Pratt, Celestina Vineyards

Enology

Terry Brandborg, Brandborg Vineyard & Winery
Chris Graves, Naumes Crush & Fermentation
Vince Vidrine, Irvine & Roberts Vineyards

NORTHERN BORDER

Vit & Eno

Brian McCormick, Idiot's Grace

OWB VITICULTURE & ENOLOGY RESEARCH VISION

Champion continuous improvement of Oregon's capacity to produce world-class wines that reflect a sense of place by sponsoring industry-leading research in the development of sustainable practices and climate-adaptive skills.

STRATEGIC PRIORITIES FOR V&E RESEARCH

1.

WINE QUALITY

Support advancements in wine quality and site expression by enhancing markers of quality in the vineyard and winery.

2.

SUSTAINABLE PRODUCTION

Lead in developing sustainable practices to minimize inputs and reduce impact.

3.

CHANGING CLIMATE

Facilitate adaptation of vineyard and winemaking practices to future climatic conditions.

4.

FOUNDATIONAL RESEARCH

Foster viticulture and enology discovery that has the potential to provide foundations for future applications that address the other three strategic pillars.

2019-21 FUNDED PROJECTS			STRATEGIC PLAN PRIORITY AREA			
PRIMARY INVESTIGATOR	PROJECT	INSTITUTION	WINE QUALITY	SUSTAINABLE PRODUCTION	CHANGING CLIMATE	FOUNDATIONAL RESEARCH
Achala KC	GTDs in Oregon vineyards	Oregon State University	x	x		
Walt Mahaffee	Botrytis bunch rot	USDA-Agriculture Research Foundation	x	x	x	
Alec Levin	Determining optimal irrigation initiation time	Oregon State University	x	x	x	
Patti Skinkis	Soil moisture and vine response in Oregon soils	Oregon State University	x	x	x	
Michael Qian	Identification and assessment of smoke odorants in grapes and wine	Oregon State University	x		x	
James Osborne	Malolactic fermentation and Brettanomyces	Oregon State University	x			x
Federico Casassa	Variations of berry size	California Polytechnic State University, San Luis Obispo	x			x
Vaughn Walton	Understanding red blotch vectors and transmission	Oregon State University		x		
Walt Mahaffee	Persistence of fungicide resistance in powdery mildew	USDA-Agriculture Research Foundation		x		
Marcelo Moretti	Sustainable vineyard weed management (canceled)	Oregon State University		x		
Patti Skinkis	Rootstock performance in Oregon	Oregon State University		x	x	
Jeremy Weisz	Terroir and microbiome differences on grapes and in wine	Linfield University		x		x
Laurent Deluc	Auxin-Response Factor 4 role in winegrape ripening	Oregon State University				x
Laurent Deluc	Gene editing technology	Oregon State University				x

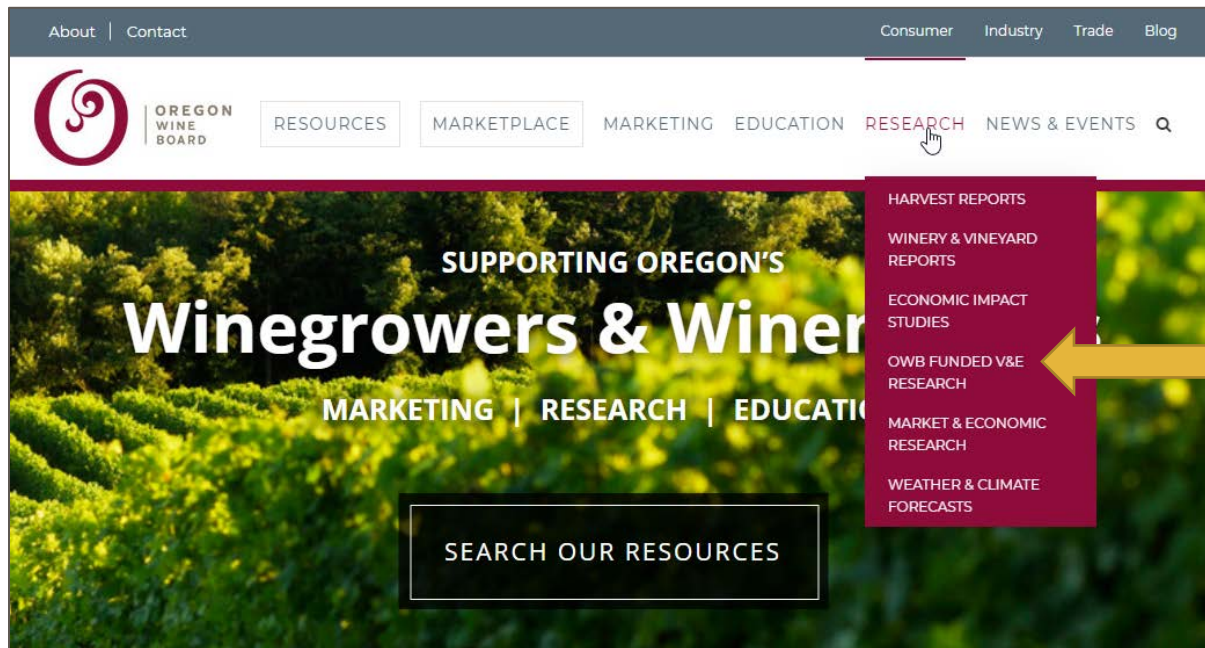
WHERE TO FIND RESEARCH UPDATES

industry.oregonwine.org



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2020-2021 OWB Funded Research Projects

August 4, 2020 | [OWB Funded Research](#) | [Technical Research](#) | [Viticulture + Enology](#) | [0 Comments](#)

For 2020-2021, the OWB allocated \$350,000 for the support of these research grants. Below are the eight funded projects. Updates on these projects will be reported throughout the year.

Federico Casassa, Associate Professor of Enology, Wine & Viticulture Department, California Polytechnic State University, San Luis Obispo.

Variations of Berry Size

Berry size is seen as a determining factor of wine quality because excessive berry size (due to varietal or viticultural practices) may lead to a proportional decrease of solids (skins and seeds) where sensory-relevant compounds are located. Here we aim to understand the effect on wine chemistry and sensory aspects due to intrinsic variations in berry size on *V. vinifera* L. cv. Pinot noir as well as to explore winemaking practices to manipulate berry size during winemaking. The understanding gained from this project will assist Oregon winemakers in clonal selection and winemaking techniques in Pinot noir for management of berry size related chemistry and sensory aspects.

Laurent Deluc, Associate Professor, Department of Horticulture, Oregon State University.

Gene Editing Technology

The new technology of gene editing offers the opportunity for rapid and precise modifications of the grapevine genome. However, the current methodology in grapevines results in the generation of Genetically Modified Organisms (GMO), which is, in general, poorly accepted by the public and falls under strict regulations by USDA. We decided to exploit the ability of gene editing to develop a methodology for the generation of GMO-free



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2019-20 OWB Funded Research: Improved understanding of virus transmission and management of key vector(s) associated with Grapevine red blotch virus

March 5, 2020 | [OWB Funded Research](#) | [Technical Research](#) | [Viticulture + Enology](#) | [0 Comments](#)

In its 2019-20 fiscal year, the Oregon Wine Board of Directors granted \$417,000 to researchers for nine projects with the potential to advance quality grape growing and winemaking in Oregon. The update below is part of a series to let you know about the status of these projects.



Dr. Vaughn Walton is a professor and horticultural entomologist in the Department of Horticulture at Oregon State University. He has prepared the update below.

This project also receives funding from the California Department of Food & Agriculture and the USDA Specialty Crop Research Initiative.

Improved understanding of virus transmission and management of key vector(s) associated with Grapevine red blotch virus

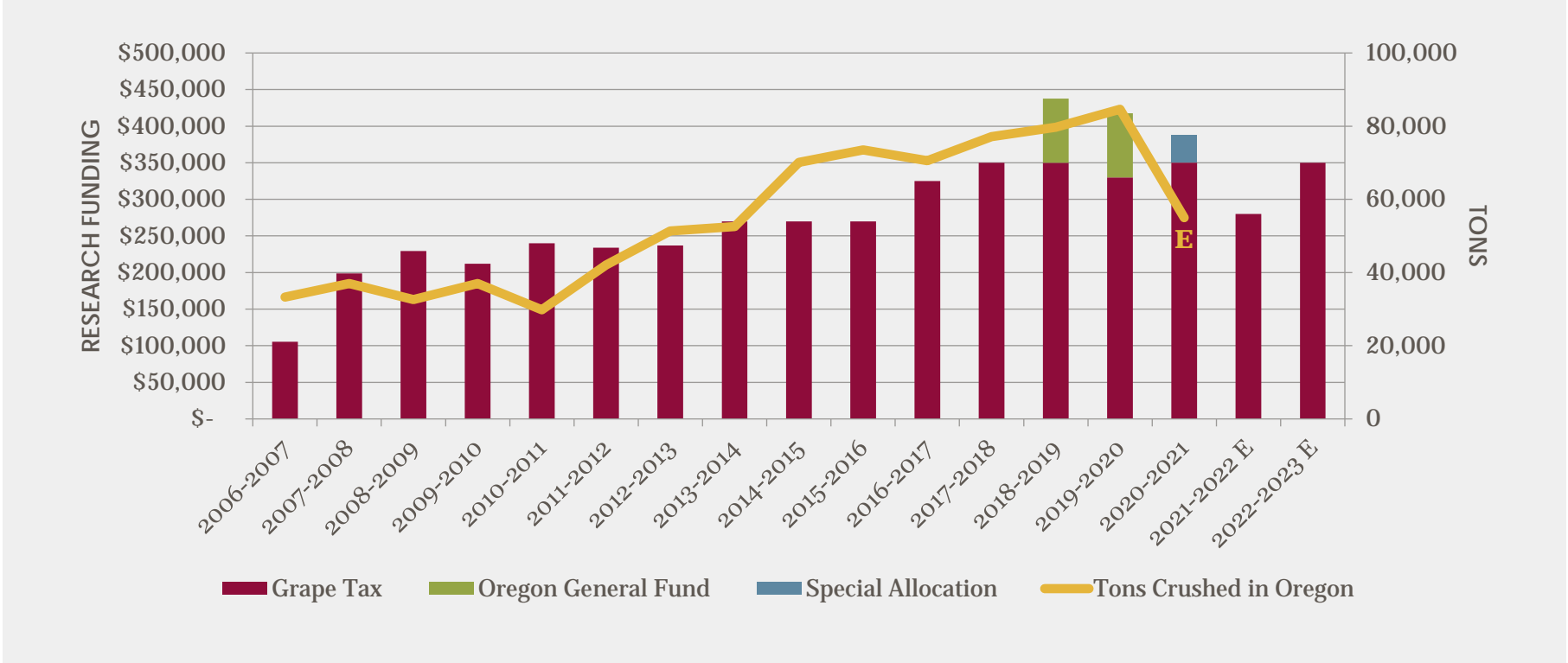
Project objectives:

The objective of this study is to improve understanding of the transmission of grapevine red blotch virus and management of key vectors associated with transmitting the virus.

The specific project objectives are to:

1. Determine virus status of plants subjected to transmission biology assays from 2016-2018
2. Conduct refined transmission biology trials
3. Evaluate conventional and cultural control strategies of key treehopper species

OWB V&E RESEARCH FUNDING HISTORY



WHAT'S IN STORE THIS WEEK 10-10:30 A.M.

TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Research Introduction Grapevine Trunk Diseases in Oregon Vineyards <i>Dr. Achala KC</i>	2020 Smoke Research Update: Impacts of Proximity of Smoke on Vineyard and Variety <i>Dr. James Osborne</i> <i>Dr. Michael Qian</i> <i>Dr. Elizabeth Tomasino</i>	Transmission & Management of Grapevine Red Blotch Virus <i>Dr. Vaughn Walton</i> Microscopy of Red Blotch <i>Dr. Bhaskar Bondada</i>	Terroir and Microbiomes <i>Dr. Jeremy Weisz</i> Elucidating Brettanomyces Paths of Entry into the Cellar <i>Dr. Christopher Curtin</i> Using MLF to Prevent Brett Spoilage <i>Dr. James Osborne</i>

THANK YOU



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